TEAM 2025111

PROBLEM STATEMENT

$500B+
lost through reduced productivity

32%
fewer sick days with wellness programs

18%
higher productivity in companies that prioritize wellbeing

1

Reactive Support System

Reactive systems hinder proactive HR interventions.

2

Manual Analysis Delays

Frequent delays significantly disrupt HR operations.
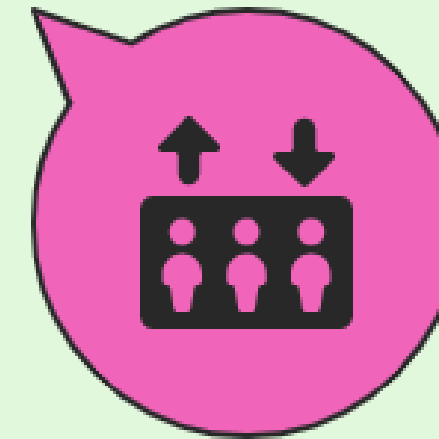
3

Data Utilization Gap

Data silos rarely impact immediate HR decisions.
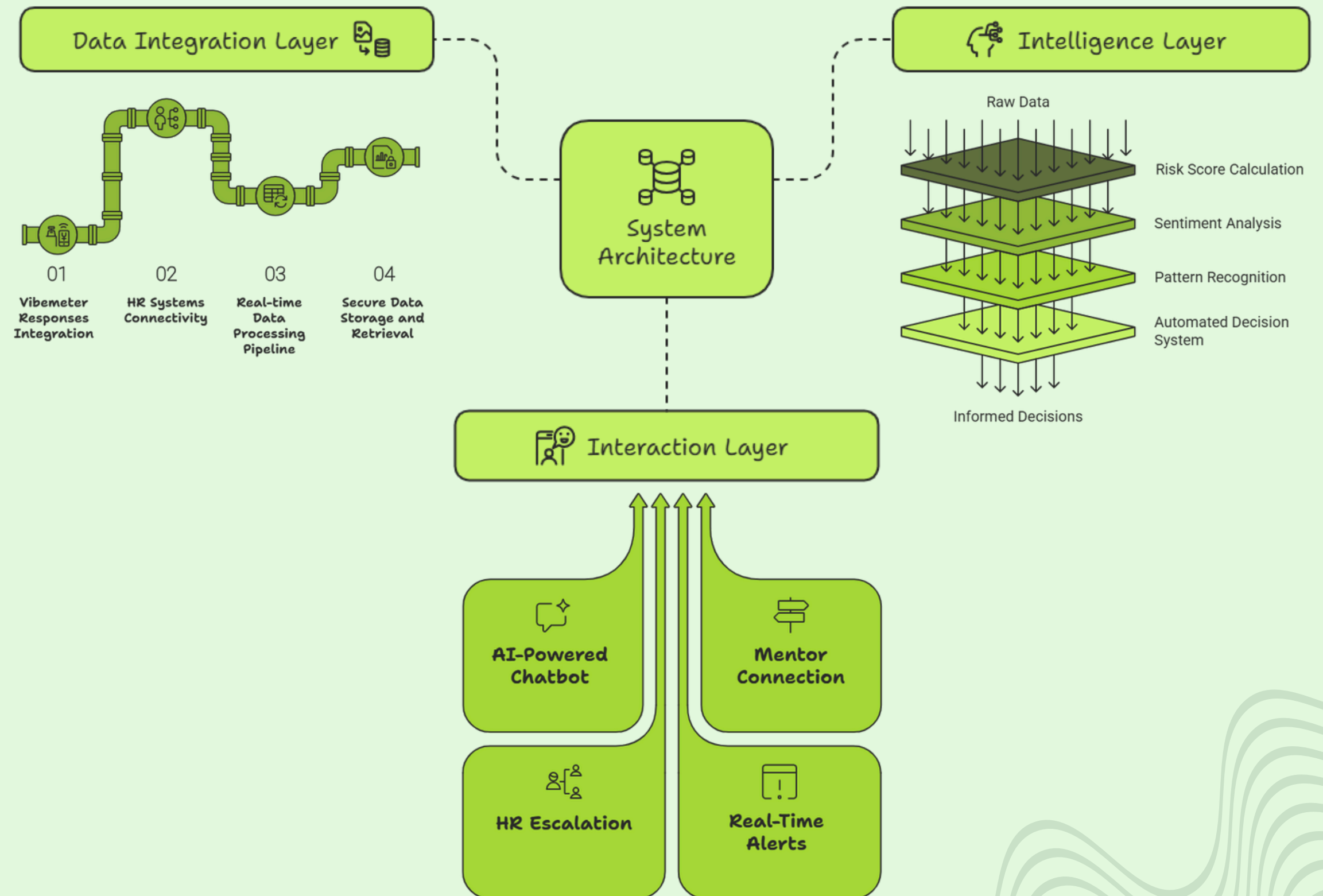
4

Limited Scalability

Scalability issues occur often but affect operations minimally.

SOLUTION

Three-layered architecture system:
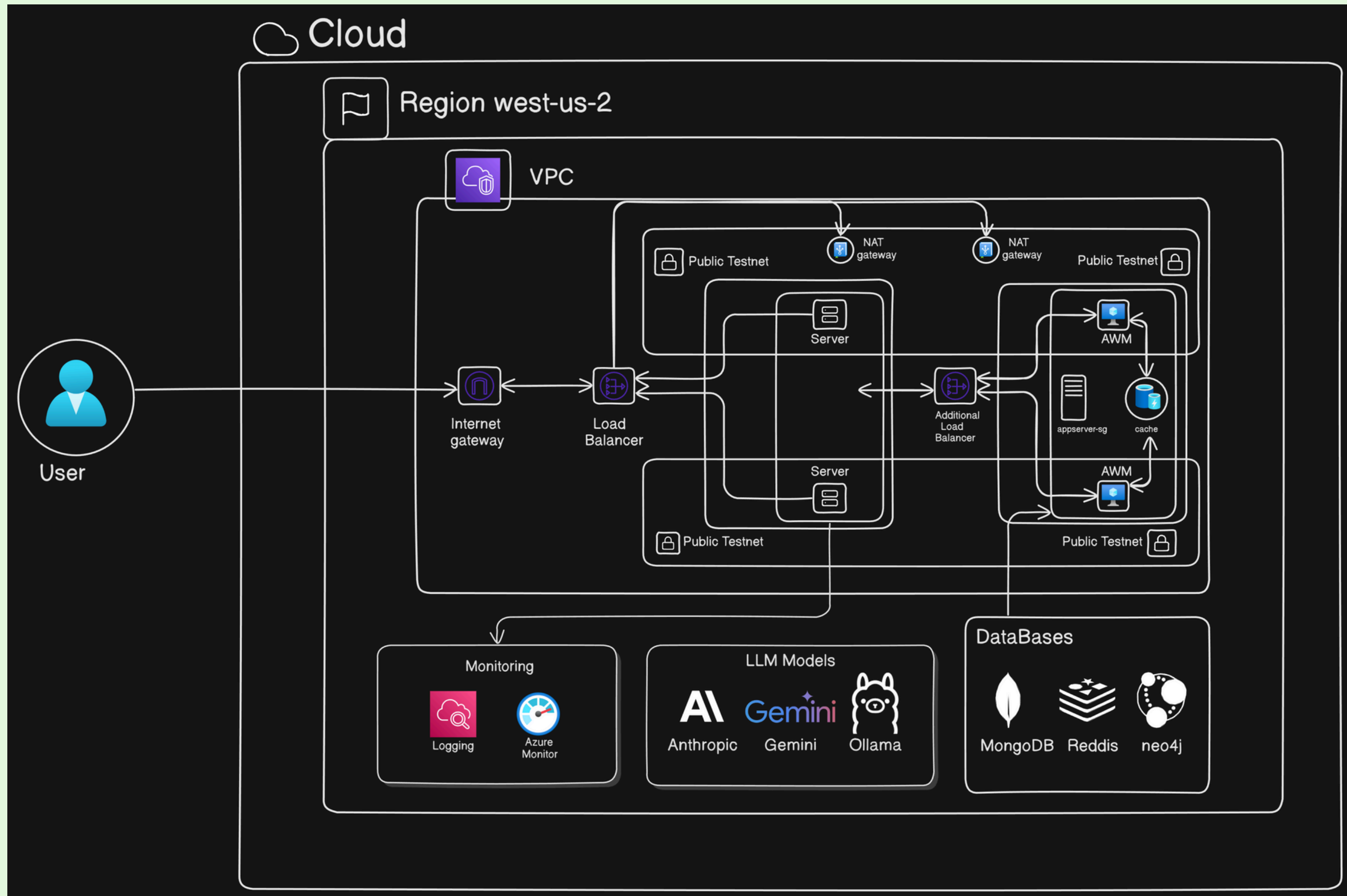
- **Data Integration Layer:** Consolidates information from multiple sources through visualized awareness, HR systems, and secure storage.

- **Intelligence Layer:** Transforms data into insights via risk assessment, sentiment analysis, and pattern recognition algorithms.

- **Interaction Layer:** Enables engagement through AI chatbot, mentor connections, HR escalation, and real-time alerts.

FEATURES

AI Conversation Engine
- Empathetic Interactions
- Context-Aware Adaptation

Automated Insight Generation
- Daily Summary Reports
- Recommend Interventions

Intelligent Data Integration
- Correlate Emotional Data
- Consolidate Employee Datasets

MindFlix Platform

Risk-Triggered Engagement
- Identify Support Needs
- Initiate Engagement Protocols

Real-time Analysis Dashboard
- Emotional Trend Visualizations
- Predictive Indicators

Multi-channel Communication Hub
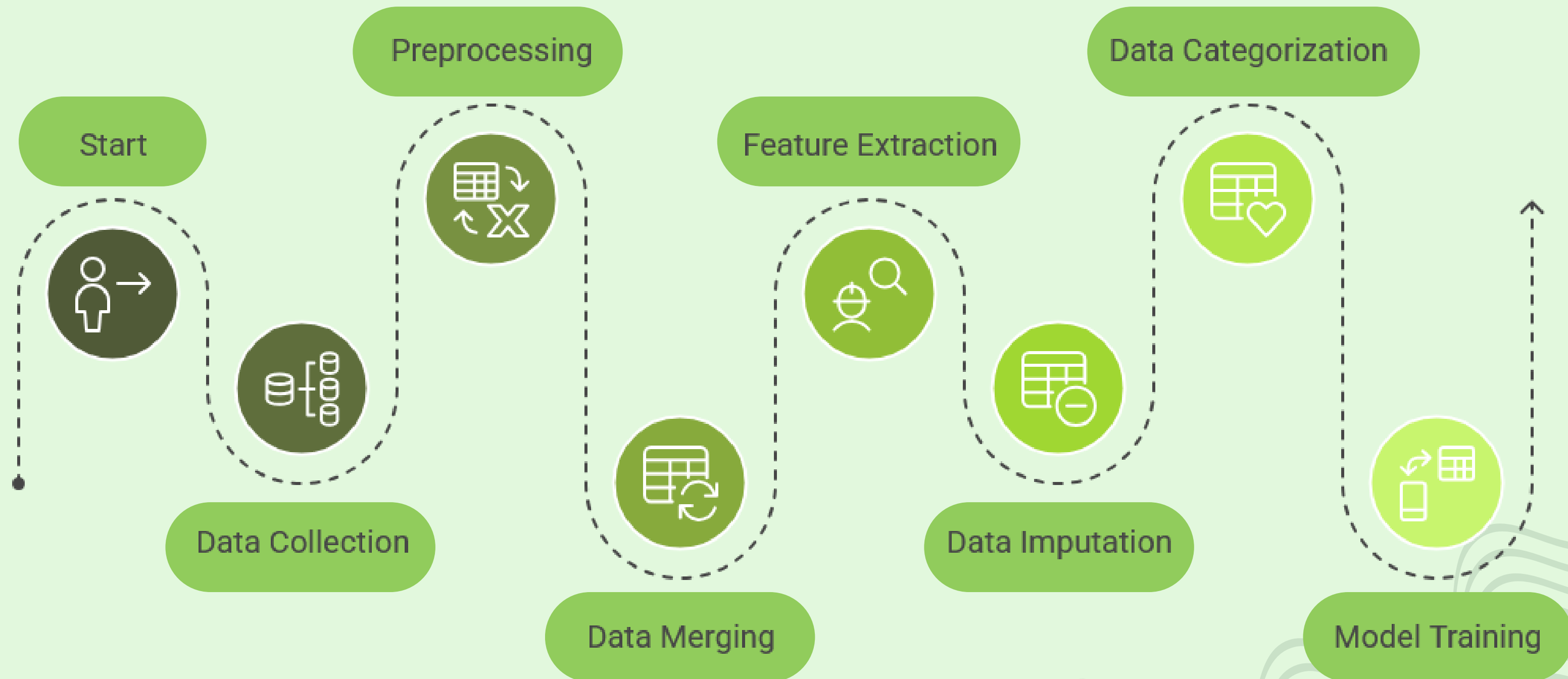- Desktop Applications
- Mobile Interfaces

SYSTEM DESIGN

DATA ANALYSIS

- The given six datasets are merged, weighted using AHP, and imputed with MICE to handle missing values.
- A Random Forest model trained on sad/frustrated cases predicts emotional states for all employees.
- Those flagged as at-risk are assigned detailed profiles for support and intervention.

Preprocessing

Data Categorization

Start

Feature Extraction

Data Collection

Data Merging

Data Imputation

Model Training

CHATBOT FRAMEWORK

Mindflix's intelligent chatbot combines multi-LLM orchestration with dynamic question generation to deliver personalized conversations.
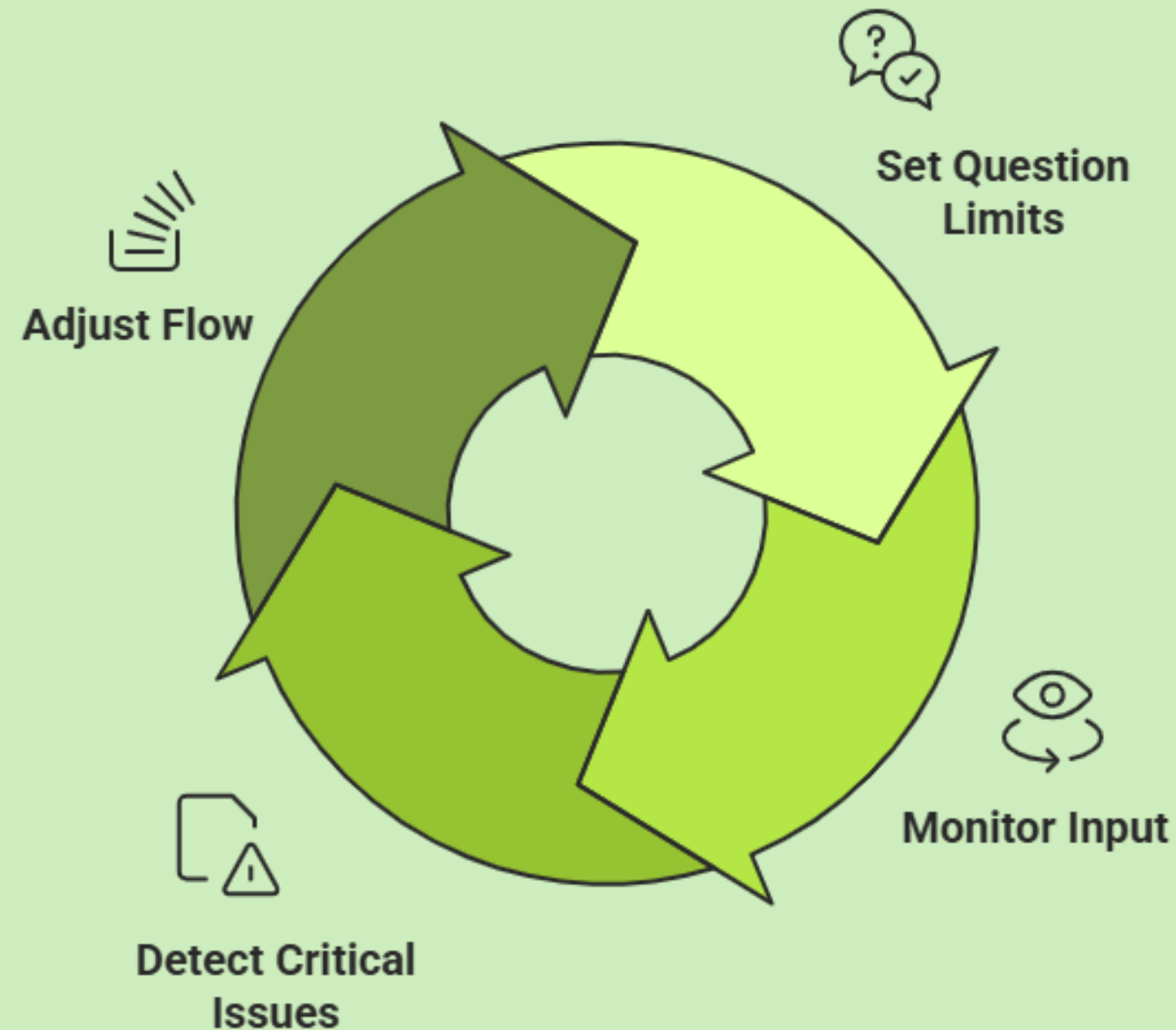
- Through sophisticated intent analysis and real-time response processing, each interaction is tailored while maintaining natural dialogue flow, ensuring effective employee support at scale.
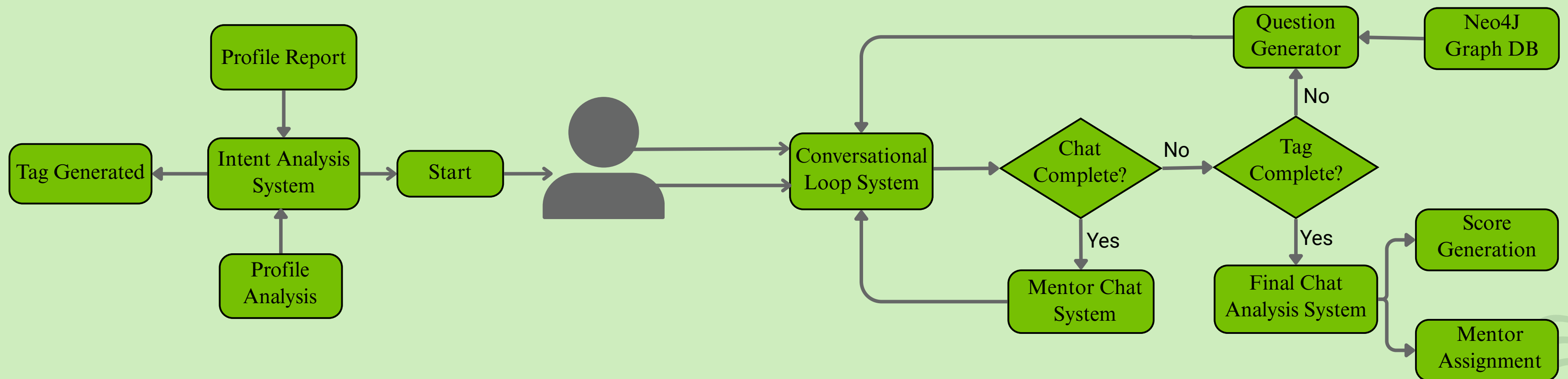
CHATBOT FRAMEWORK

- Dual-system approach combines dynamic conversation management with intelligent handoff protocols
- The continuous monitoring cycle adapts to employee needs in real-time
- Structured transition process ensures seamless escalation to ai mentors when needed

Conversation Management Cycle

Set Question Limits

Adjust Flow

Monitor Input

Detect Critical Issues

Optimizing Conversation Handoffs
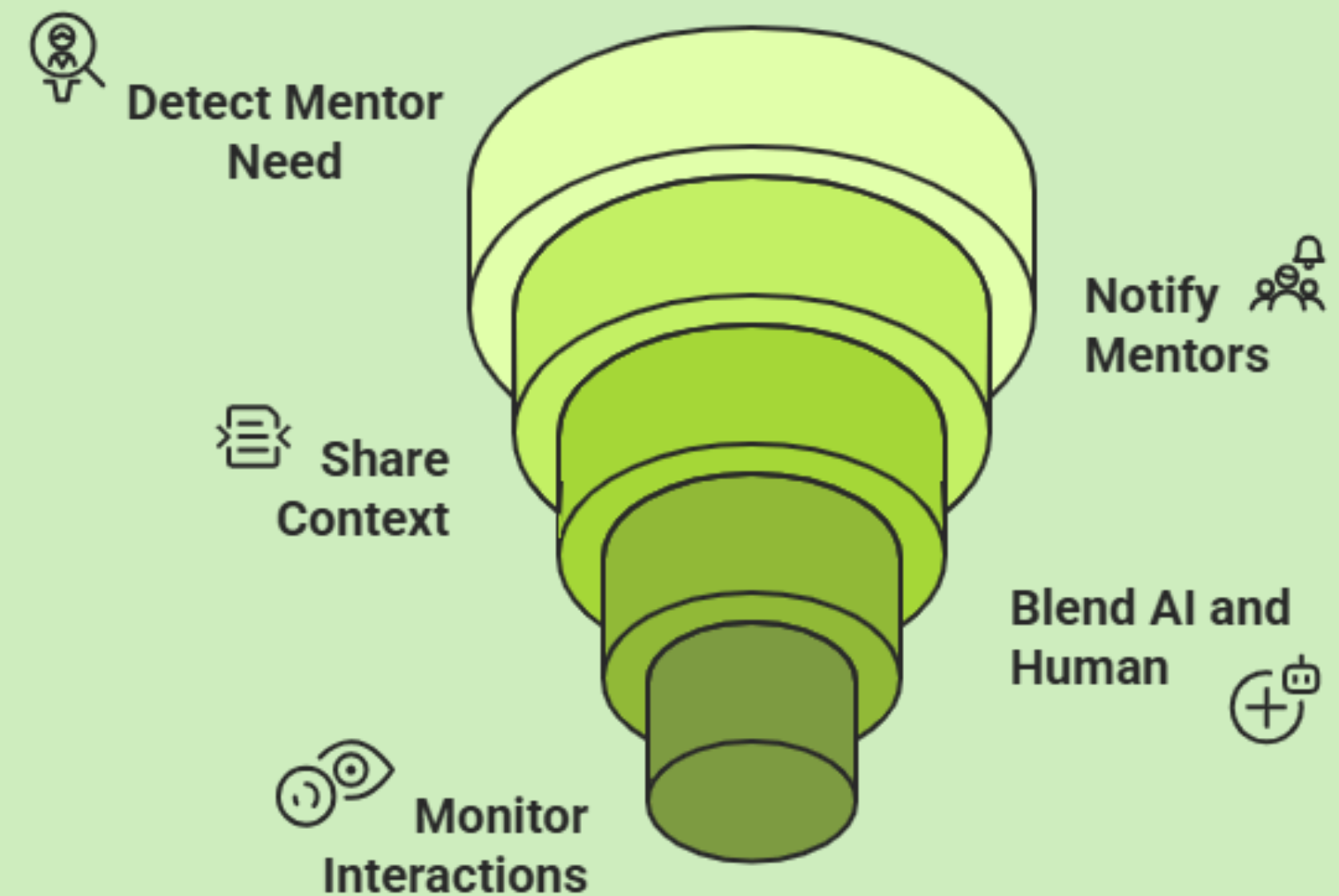
Detect Mentor Need

Notify Mentors

Share Context

Blend AI and Human

Monitor Interactions

POST CHAT ANALYSIS

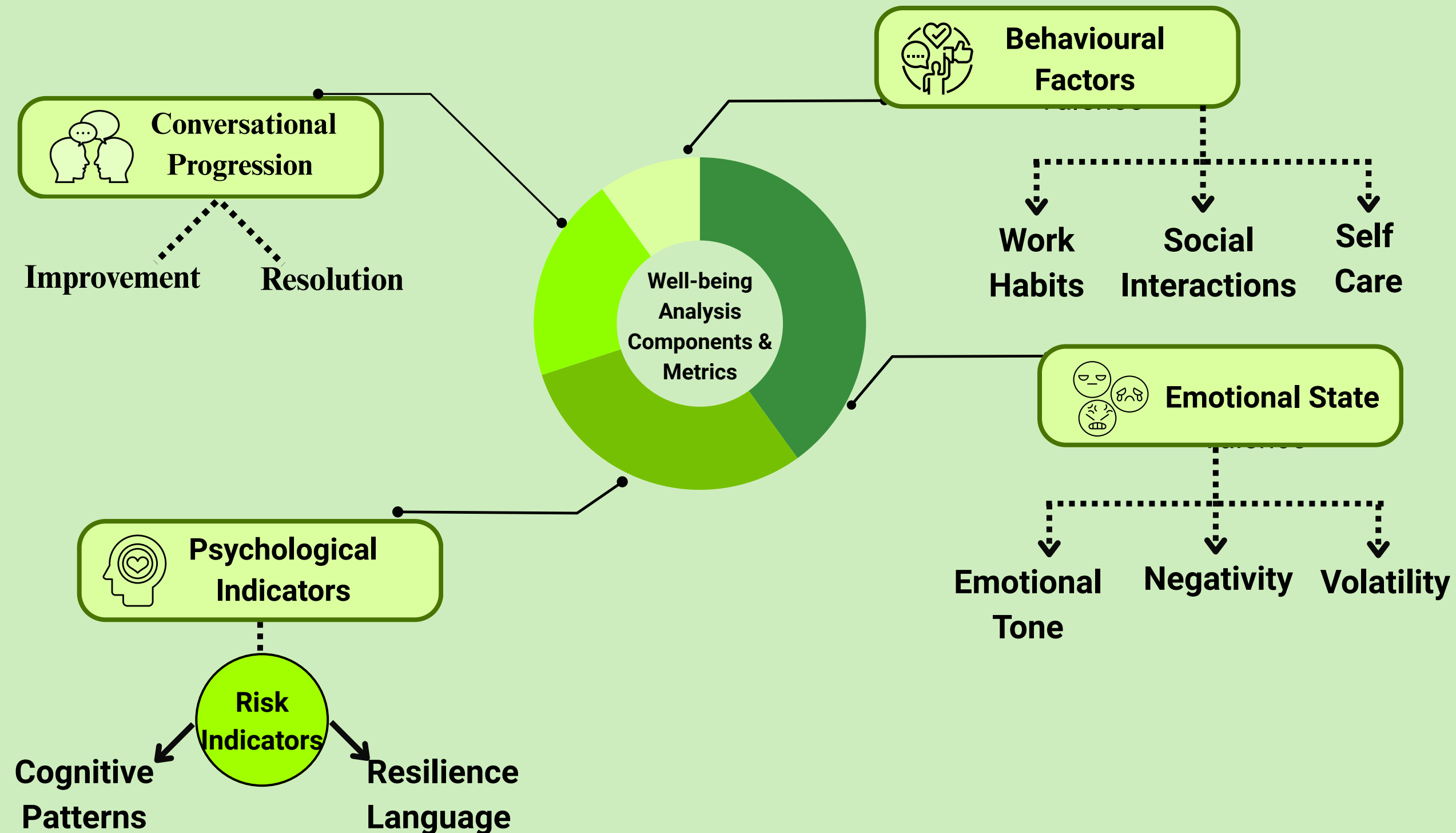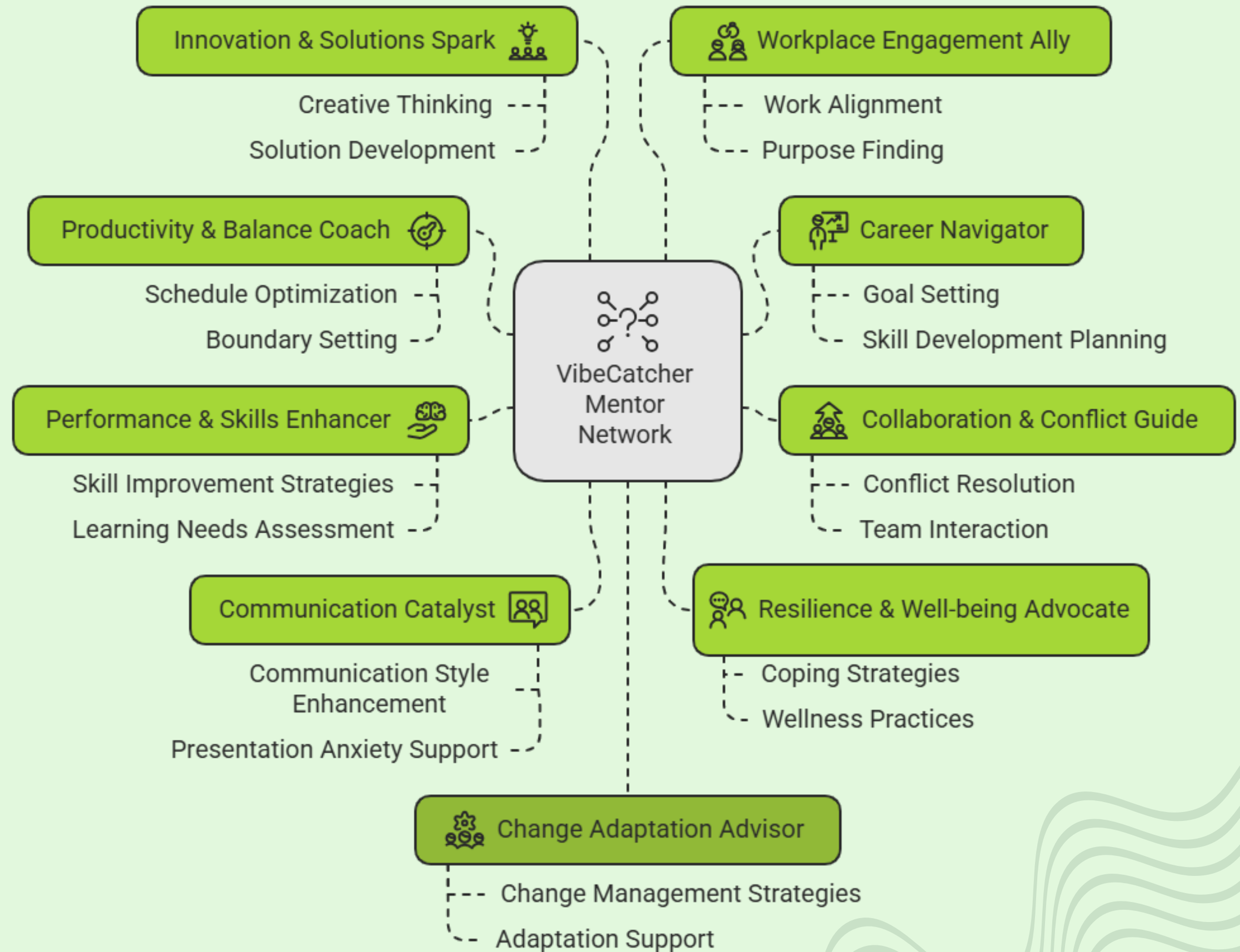- **Diverse Mentor Expertise:** Covers key areas like productivity, well-being, and career growth. Includes experienced coaches and advocates

- **Intelligent Matching:** Analyzes employee conversations for nuanced needs. Matches employees with mentors best suited to support them

- **Personalized Support:** Ensures mentorship is relevant and impactful. Builds trust through tailored guidance

- **Outcome-Focused:** Drives measurable improvements in employee well-being and performance

VibeCatcher Mentor Network

- Innovation & Solutions Spark
  - Creative Thinking
  - Solution Development
- Workplace Engagement Ally
  - Work Alignment
  - Purpose Finding
- Productivity & Balance Coach
  - Schedule Optimization
  - Boundary Setting
- Career Navigator
  - Goal Setting
  - Skill Development Planning
- Performance & Skills Enhancer
  - Skill Improvement Strategies
  - Learning Needs Assessment
- Collaboration & Conflict Guide
  - Conflict Resolution
  - Team Interaction
- Communication Catalyst
  - Communication Style Enhancement
  - Presentation Anxiety Support
- Resilience & Well-being Advocate
  - Coping Strategies
  - Wellness Practices
- Change Adaptation Advisor
  - Change Management Strategies
  - Adaptation Support

Thank You !!

Website Live at
mindflix.tech

Video Demo Link

MINDFLIX <

- Dashboard
- Reports & Analytics
- Onboarding
- Schedules
- Inquiries
- Blogs

HR Dashboard
Monitor employee well-being and engagement across the organization

Overall Risk Score
1.1/5

Critical Cases
6

Total Employees Surveyed
510

Weekly Mood Trend

Tue Wed Thu Fri Sat Sun Mon

Mood Distribution

Excited